

## ABSTRACT

### SYSTEM AND METHOD FOR MONITORING AND CONTROL OF PROCESSES AND MACHINES

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The disclosed invention includes a system and method for monitoring and control of processes and machines. A computer-implemented method for monitoring and controlling a process comprises storing process attribute information of objects in a plurality of databases, receiving at least one process measurement from a measurement device, similarity searching the at least one process measurement against the process attribute information stored in the databases, assigning a similarity score to the process measurement, comparing the similarity score to a match tolerance level, computing a process action for at least one process machine, via an algorithm having a process variable, replacing the process variable in the algorithm with the process measurement where the similarity score is equal to or greater than the match tolerance level, replacing the process variable in the algorithm with a set point where the similarity score is lower than the match tolerance level, and communicating the process action to a process machine.

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